## SIEMENS

## Data sheet

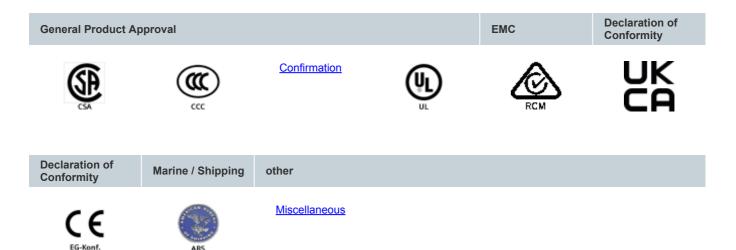
## 3VA5212-5EC36-0AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=125A overload protection Ir=125A fixed short-circuit protection Ii=5...10 x In cable connection on both sides

| Model  |                             |
|--|-----------------------------|
| product brand name   | SENTRON                     |
| product designation  | Molded-case circuit breaker |
| product designation / according to UL file   | MFAS                        |
| Product version  | System protection           |
| design of the load switch / according to UL 489 / Heating,<br>Air Conditioning, and Refrigeration circuit breaker (HACR<br>Type) | Yes                         |
| design of the load switch / according to UL 489 / High-<br>Intensity-Discharge circuit breaker (HID Type)                        | No                          |
| design of the load switch / according to UL 489 / Switching<br>Duty circuit breaker (SWD Type)                                   | No                          |
| design of the overcurrent release  | TM230                       |
| protection function of the overcurrent release   | LI                          |
| number of poles  | 3                           |
| General technical data   |                             |
| rated insulation voltage Ui  | 800 V                       |
| Max. rated operational voltage Ue with DC  | 750 V                       |
| operating voltage / at AC / rated value  | 690 V                       |
| power loss [W] / maximum   | 23 W                        |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                                   | 7.53 W                      |
| mechanical service life (switching cycles) / typical   | 20 000                      |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz  | 8 000                       |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz  | 4 000                       |
| electrical endurance (switching cycles) / at 480 V   | 8 000                       |
| electrical endurance (switching cycles) / at 600 V   | 4 000                       |
| Neutral conductors / upgradeable/retrofittable   | No                          |
| ground-fault monitoring version  | without                     |
| product function   |                             |
| <ul> <li>communication function</li> </ul>   | No                          |
| <ul> <li>other measurement function</li> </ul>   | No                          |
| Net Weight   | 2.25 kg                     |
| Current  |                             |
| marking / according to UL 489 / 100%-rated breaker   | No                          |
| operational current  |                             |
| • at 40 °C   | 125 A                       |
| • at 45 °C   | 121 A                       |
| • at 50 °C   | 116 A                       |

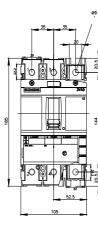
|   | 110.4  |
|---|--|
| • at 55 °C  | 112 A  |
| • at 60 °C  | 108 A  |
| • at 65 °C  | 103 A  |
| • at 70 °C  | 99 A   |
| Switching capacity according to IEC 60947                                       |  |
| switching capacity class of the circuit breaker                                 | M  |
| breaking capacity maximum short-circuit current (Icu)                           |  |
| • at 240 V  | 85 kA  |
| • at 415 V  | 55 kA  |
| • at 690 V  | 7 kA   |
| breaking capacity operating short-circuit current (lcs)                         |  |
| • at 240 V  | 85 kA  |
| ● at 415 V  | 55 kA  |
| • at 690 V  | 7 kA   |
| short-circuit current making capacity (Icm)                                     |  |
| • at 240 V  | 187 kA   |
| • at 415 V  | 121 kA   |
| • at 690 V  | 11.9 kA  |
| design of short-circuit protection  | For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter |
| Switching capacity according to UL 489  |  |
| breaking capacity current   |  |
| • at 240 V  | 85 kA  |
| • at 480 V  | 35 kA  |
| • at 600 V  | 18 kA  |
| Adjustable parameters   |  |
| Adjustable response value current / Ig min.                                     | 125 A  |
| Adjustable response value current / Ig min.                                     | 125 A  |
| Ground fault protection / tripping switchable / I2t=ON/OFF                      | No   |
| Mechanical Design   |  |
| height [in]   | 7.28 in  |
| Height  | 185 mm   |
| width [in]  | 4.13 in  |
| Width   | 105 mm   |
| depth [in]  | 3.27 in  |
| depth   | 83 mm  |
| Connections   |  |
| arrangement of electrical connectors / for main current                         | Front connection   |
| circuit   |  |
| type of electrical connection / for main current circuit                        | circular conductor terminal on both sides  |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (6 AWG - 350 kcmil)  |
| Auxiliary circuit   |  |
| product component   |  |
| undervoltage release  | No   |
| <ul> <li>voltage trigger</li> </ul>   | No   |
| trip indicator  | No   |
| number of CO contacts / for auxiliary contacts                                  | 0  |
| Accessories   |  |
| product extension / optional / motor drive                                      | Yes  |
| Environmental conditions  |  |
| protection class IP / on the front  | IP40   |
| ambient temperature   |  |
| <ul> <li>during operation / minimum</li> </ul>                                  | -25 °C   |
| <ul> <li>during operation / maximum</li> </ul>                                  | 70 °C  |
| during storage / minimum  | -40 °C   |
| <ul> <li>during storage / maximum</li> </ul>                                    | 80 °C  |
| Certificates  |  |
| reference code / according to IEC 81346-2                                       | Q  |
|   |  |

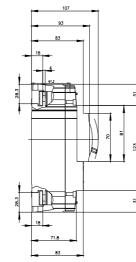


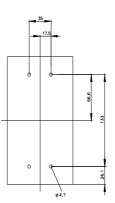
## Further information

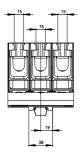
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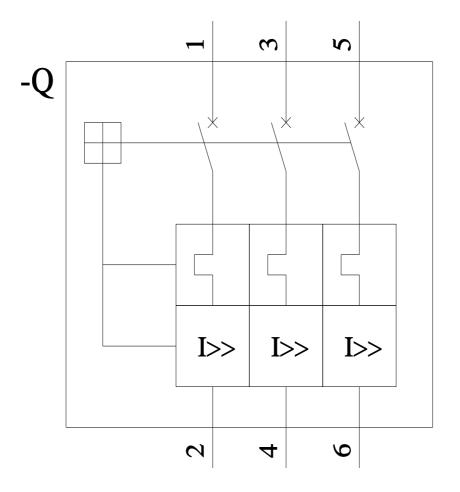
http://www.siemens.com/specifications

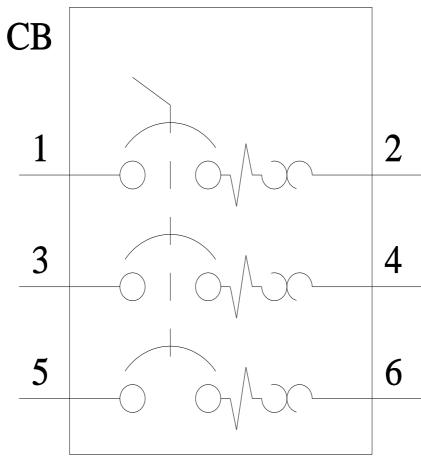












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